GRAMATICA\_PASCAL = (VARIAVEIS, TERMINAIS, REGRAS, START)

VARIAVEIS = {START, LISTADEC, DEC, LISTAID, TIPO, BLOCOM, COM, LISTACOM, LCOM, BLIF, BLELSE, LISTAEXP, EXP, OP, OP1, OP2, OP3, UNI}

TERMINAIS = {[PROGRAM], [ID], [PTVIR], [VAR], [DOISPT], [VIRG], [REAL], [BOOLEAN], [BEGIN], [END], [READ], [APAR], [FPAR], [WRITE], [ATRIB], [IF], [THEN], [ELSE], [IGUAL], [DIF], [MAIOR], [MENOR], [MAIORIG], [MENORIG], [AND], [OR], [NOT], [SOMA], [SUBT], [MULT], [DIV], [DIVINT], [CONST], [BOOL]}

REGRAS = {

START -> **[PROGRAM] [ID][PTVIR] [VAR]** LISTADEC COM LISTACOM

LISTADEC -> **[ID]**LISTAID **[DOISPT]** TIPO**[PTVIR]** DEC

DEC -> **[ID]**LISTAID **[DOISPT]** TIPO**[PTVIR]** DEC | **[BEGIN]**

LISTAID -> **[VIRG]** **[ID]**LISTAID | **ε**

TIPO -> **[REAL]** | **[BOOLEAN]**

COM -> **[READ][APAR][ID]**LISTAID**[FPAR]** | **[WRITE][APAR]**EXP OP LISTAEXP| **[ID] [ATRIB]** EXP OP | BLIF

LISTACOM -> **[PTVIR]** LCOM | **[END]**

LCOM -> **[END]** | COM LISTACOM

BLIF -> **[IF]** EXP OP **[THEN]** **[BEGIN]** COM LISTACOM BLELSE

BLELSE -> **[ELSE]** **[BEGIN]** COM LISTACOM | **ε**

LISTAEXP -> **[VIRG]** EXP OP LISTAEXP | **[FPAR]**

EXP -> **[NOT]** UNI OP3 OP2 OP1 | UNI OP3 OP2 OP1

OP -> **[IGUAL]** EXP | **[DIF]** EXP | **[MAIOR]** EXP | **[MENOR]** EXP | **[MAIORIG]** EXP | **[MENORIG]** EXP | **ε**

OP1 -> **[AND]** EXP | **[OR]** EXP | **ε**

OP2 -> **[SOMA]** UNI OP3 OP2 | **[SUBT]** UNI OP3 OP2 | **ε**

OP3 -> **[MULT]** UNI OP3 | **[DIV]** UNI OP3 | **[DIVINT]** UNI OP3 | **ε**

UNI -> **[APAR]**EXP OP**[FPAR]** | **[ID]** | **[CONST]** | **[BOOL]**

}